

CHARACTERISTICS AT 25°C

Typical Input Characteristics

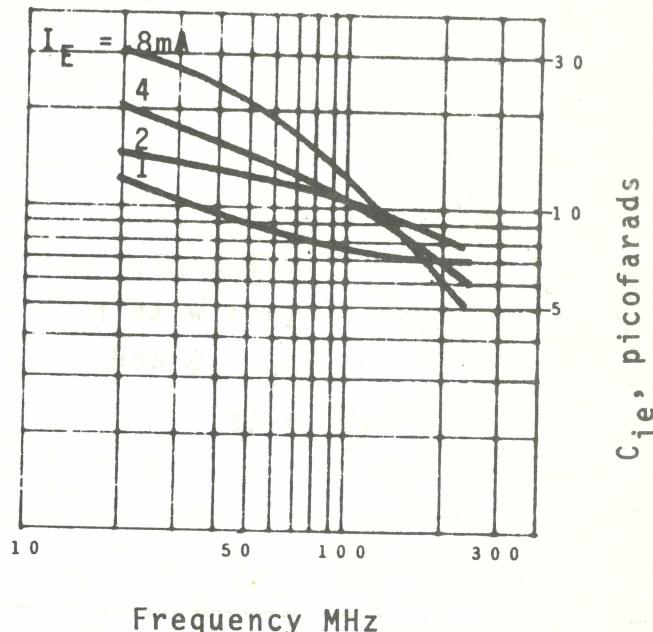
Common Emitter Circuit, Base Input
Collector-to-emitter volts (V_{CE}) = 10

AS303
AS304
AS305
AS306
AS307
AS308

Fig. 1

Input Capacitance C_{ie}

C_{ie} is constant within
about 3% between
 $V_{CE} = 5$ and $V_{CE} = 15$



Frequency MHz

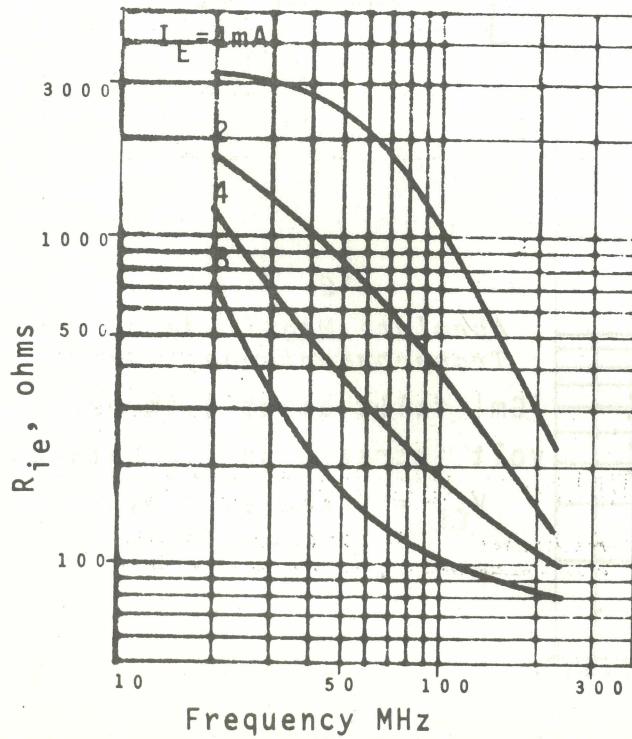


Fig. 2

Input Resistance R_{ie}

R_{ie} increases about 2%
per volt increase
in V_{CE} between
 $V_{CE} = 5$ and $V_{CE} = 15$

CHARACTERISTICS AT 25°C

Typical Transconductance Characteristics

Common Emitter Circuit, Base Input
Collector-to-emitter volts (V_{CE}) = 10

AS303
AS304
AS305
AS306
AS307
AS308

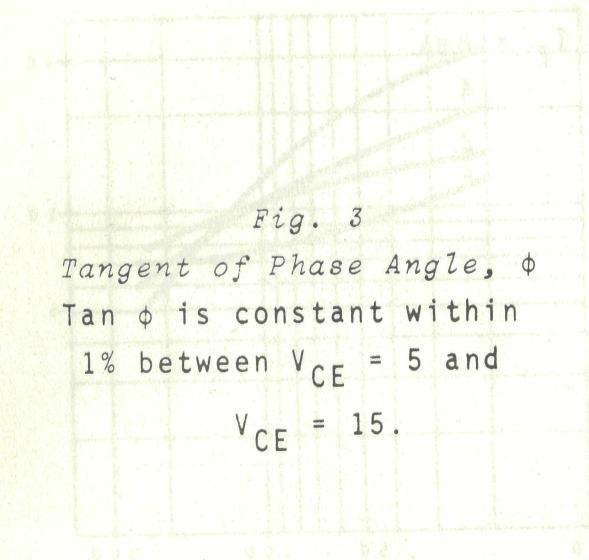
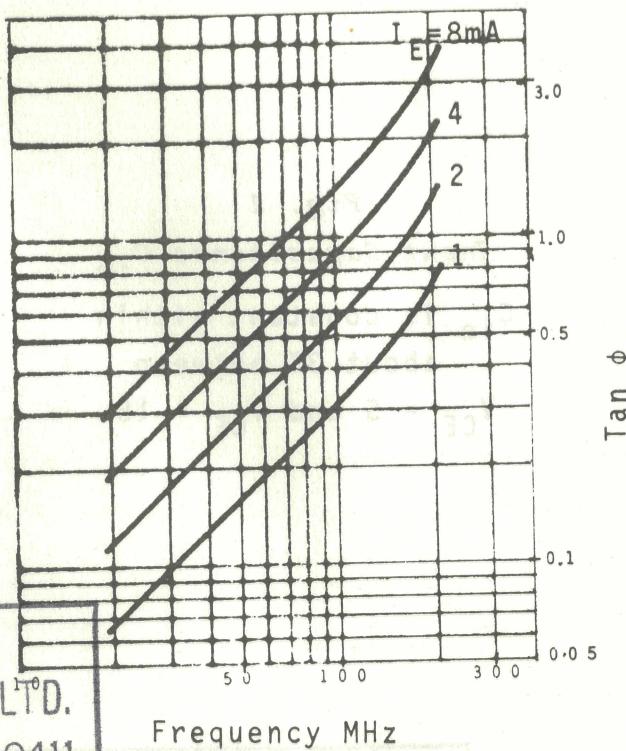


Fig. 3

Tangent of Phase Angle, ϕ
Tan ϕ is constant within
1% between $V_{CE} = 5$ and
 $V_{CE} = 15$.



With the Compliments of...
AMALGAMATED WIRELESS VALVE CO. PTY. LTD.
VICTORIA RD., RYDALMERE PHONE: 638-0411

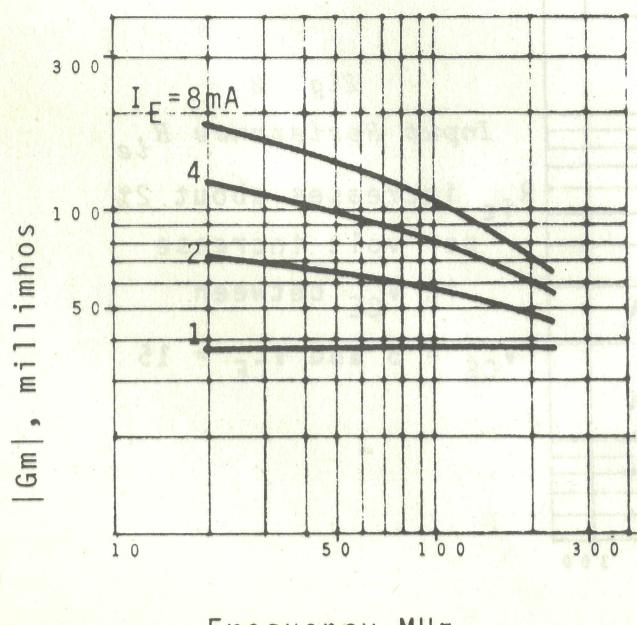


Fig. 4
Absolute Magnitude of Transconductance, $|G_m|$
 $|G_m|$ falls about 0.4% per volt increase in V_{CE} between
 $V_{CE} = 5$ and $V_{CE} = 15$

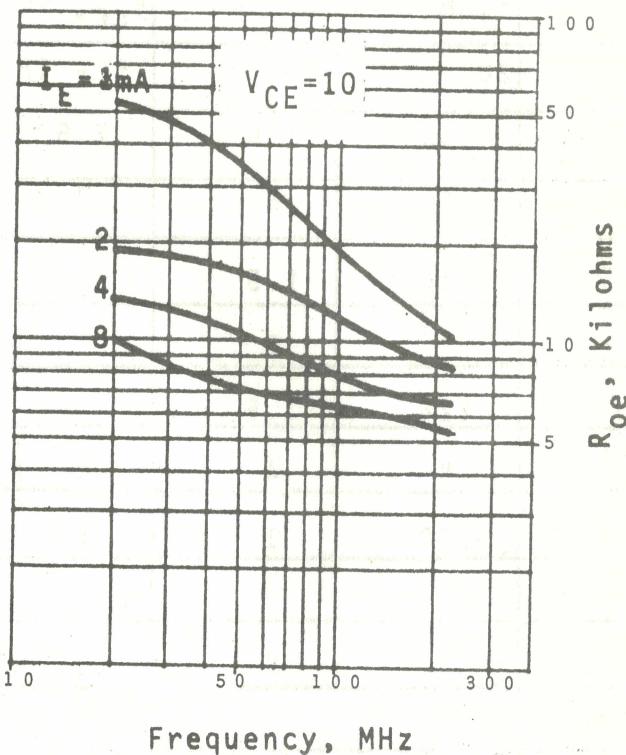
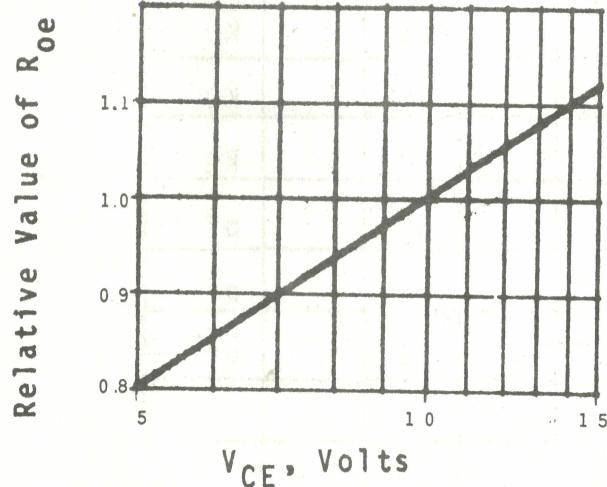
CHARACTERISTICS AT 25°C

*Typical Output and Feedback Characteristics
Common Emitter Circuit, Base Input*

AS303
AS304
AS305
AS306
AS307
AS308

Fig. 5

Output Resistance, R_{oe}
 R_{oe} varies with
 V_{CE} approximately as
shown below:



Output Capacitance, C_{oe} :

C_{oe} has typically the value 2.1 pF and is essentially independent of frequency, I_E and V_{CE} .

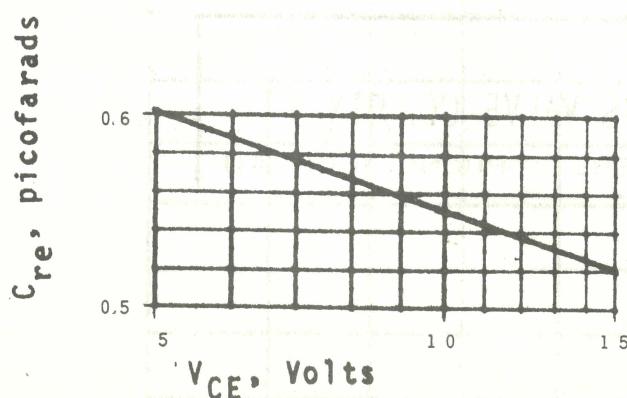


Fig. 6

Feedback capacitance, C_{re}
 C_{re} is essentially independent
of frequency and I_E

AS303
AS304
AS305
AS306
AS307
AS308

CHARACTERISTICS AT 25°C

Y PARAMETER VALUES

AMALGAMATED WIRELESS VALVE CO. PTY. LTD.